UTAH VALLEY STATE COLLEGE HEAT PLANT PLAZA IMPROVEMENTS

OREM, UTAH

APRIL 04, 2007 CONSTRUCTION DOCUMENTS



STATE OF UTAH DEPARTMENT OF ADMINISTRATIVE SERVICES DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 801.538.3018 / www.dfcm.state.ut.us

DFCM PROJECT NO. 06311790



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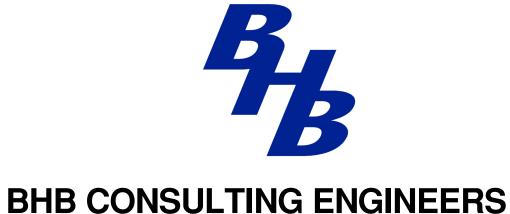
LANDSCAPE ARCHITECT

MGB+A
The Grassli Group

MGB+A

145 WEST 200 SOUTH / SALT LAKE CITY, UTAH 84101 801.364.9696 / www.grassligroup.com

STRUCTURAL ENGINEER



244 WEST 300 NORTH / SALT LAKE CITY, UTAH 84103

801.355.5656 / www.bhbengineers.com

MECHANICAL ENGINEER



330 SOUTH 300 EAST / SALT LAKE CITY, UTAH 84111

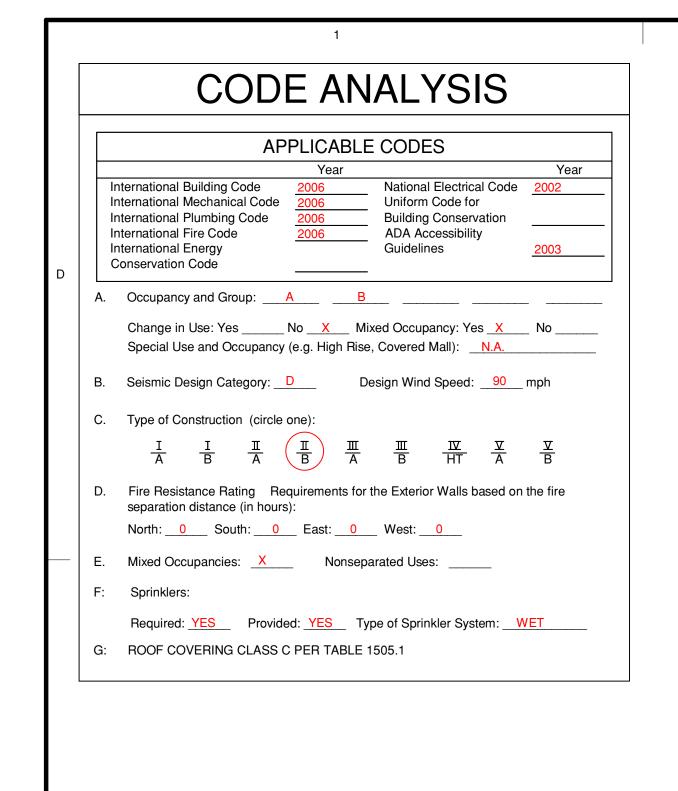
801.530.3148 / www.vbfa.com

ELECTRICAL ENGINEER



175 SOUTH MAIN STREET / SALT LAKE CITY, UTAH 84111

801.328.5151 / www.spdesign.com



ABBREVIATIONS AFF ABOVE FINISHED FLOOR ALT. ALTERNATE ALUMINUM ACI AMERICAN CONCRETE INSTITUTE ANSI AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY OF TESTING & MATERIALS ASTM AWS AMERICAN WELDING SOCIETY A.B. ANCHOR BOLT AND **ANGLE** APPROVED APPD. APPROX APPROXIMATE ARCH. ARCHITECT OR ARCHITECTURAL ARCHITECTURAL CONCRETE AVG. **AVERAGE** BM BEAM BLKG. BLOCKING BOT. BOTTOM BRKT. **BRACKET** BLDG. BUILDING CALCIUM SILICATE MASONRY UNIT C.B. CATCH BASIN CENTER CONTROL JOINT CENTERLINE C TO C CENTER TO CENTER CHANNEL C.O. CLEANOUT COL. COLUMN COMPOSITION CONCRETE MASONRY UNIT C.M.U. CONCRETE REINFORCING STEEL INSTITUTE CRSI CONST CONSTRUCTION CONT. CONTINUOUS CSK. COUNTERSINK CU. CUBIC CU. FT. CUBIC FOOT CFM **CUBIC FEET PER MINUTE** CU. IN. CUBIC INCH CU. YD. CUBIC YARD DEPT. DEPARTMENT DIAG. DIAGONAL DIAMETER DIM. DIMENSION DR DOOR DOUBLE DBL. DWG. DRAWING ELECTRICAL ELEC. ELECTRIC WATER COOLER **EWC** EL. **ELEVATION** EQUIP. **EQUIPMENT** EJ /EXP. **EXPANSION JOINT** EIFS EXTERIOR INSULATION FINISH SYSTEM FAR SIDE F.S. FT. or FEET OR FOOT FIELD VERIFY F.V. F.F. FINISH FLOOR FIRE EXTINGUISHER CABINET F.E.C. F.H.C. FIRE HOSE CABINET F.H. FIRE HYDRANT FRT FIRE RETARDANT TREATED FD FLOOR DRAIN FLUOR FLUORESCENT FTG. FOOTING FND. **FOUNDATION** GALV. GALVANIZED GAGE OR GAUGE GLAZED STRUCTURAL UNIT GYP. BD GYPSUM BOARD HDW. HARDWARE HGT. HEIGHT HSB HIGH STRENGTH BOLT HORIZ. HORIZONTAL INFO. INFORMATION INSIDE DIAMETER I.D. INTER. INTERMEDIATE KIP (1,000 LB.) LABORATORY LAB. MFG. MANUFACTURER MAX. MAXIMUM MECH. MECHANICAL MIN. MINIMUM MISC. MISCELLANEOUS NBFU NATIONAL BOARD OF FIRE UNDERWRITERS NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC. N.S. NEAR SIDE N.I.C. NOT IN CONTRACT NTS NOT TO SCALE NO. or # NUMBER O.C. ON CENTER OPNG. OPENING OPP. OPPOSITE O.D. **OUTSIDE DIAMETER** PENNY PER PERP. PERPENDICULAR PHASE POUND LB. or # PREFAB PREFABRICATED P/L PROPERTY LINE

> **RADIUS** REINFORCING

REQUIRED

ROD & SHELF

ROOF DRAIN

SPECIFICATION

SYMMETRICAL

TOP OF WALK

TOP OF STEEL

TOP OF WALL

TYPICAL

VERTICAL

WITHOUT

TOP OF MASONRY TOP BACK OF CURB

TOP OF LANDSCAPING

UNLESS NOTED OTHERWISE

VINYL WALL COVERING

WELDED WIRE FABRIC

SOUND ATTENUATION BLANKET

SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM

REVISION

ROOM

ROUND

SHEET

SIMILAR

SQUARE

REINF.

REQ'D.

REV.

R&S

RD

RM

SHT.

SIM.

SAB

SPEC.

SQ. or

SYM.

SSEIS

T.O.M.

T.B.C.

T.L. T.W.

TOS

TOW

TYP.

U.N.O.

VERT.

VWC.

WWF

W/ W/O

RD. or &

MATERIAL DESIGNATIONS

EARTH POROUS FILL

ASPHALT

CONCRETE

CONCRETE MASONRY UNITS

BRICK

CAST STONE WOOD (FINISH)

WOOD (STUDS, NAILERS)

WOOD (BLOCKING)

PLYWOOD

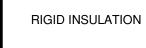
BATT INSULATION

RIGID INSULATION

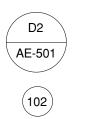
ACOUSTIC TILE GYPSUM BOARD

STEEL

PARTICLE BOARD



GRAPHIC SYMBOLS



DETAIL/WALL or SECTION NUMBER SHEET NUMBER



DOOR NUMBER



WINDOW NUMBER



ROOM NAME ROOM NUMBER

REVISION NUMBER





DETAIL, WALL or SECTION NUMBER SHEET NUMBER



GRID REFERENCE

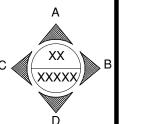


REFERENCE NORTH (PLANS)

ELEVATION REFERENCE

KEYED NOTE NUMBER

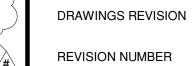






INTERIOR ELEVATION MARKER

WALL TYPES



DRAWING INDEX

<u>SHT. #</u>	DRAWING TITLE GENERAL:
GI-001 GI-002	TITLE SHEET GENERAL INFORMATION
	LANDSCAPING:
LE-101	LANDSCAPE PLAN - AREA 1
	ARCHITECTURAL:
AS-101 AD-101 AD-102 AE-101 AE-501 AE-502 AE-503 AE-504 AE-505 AE-506 AE-901	SITE PLAN PLAZA DEMOLITION PLAN - AREA 1 PLAZA DEMOLITION PLAN - AREA 2 (ALTERNATE) PLAZA PLAN - AREA 1 PLAZA PLAN - AREA 2 (ALTERNATES) DETAILS
	PLUMBING:
PD-101 PE-101 PE-102	PLAZA DEMOLITION PLAN PLAZA PLUMBING PLAN HEAT PLANT PLUMBING PLAN
	ELECTRICAL:
EE-001 ED-101	SYMBOL LEGEND & SHEET INDEX PLAZA ELECTRICAL DEMOLITION PLAN

PLAZA ELECTRICAL PLAN

BASEMENT ELECTRICAL PLAN

Ø 9 E 500 N E 500 N

Orem Z

265 E 1300 S

ш E 1400 S

8 E 1500 S

VICINITY MAP

N Center St Vineyard

LOCATION MAP
SCALE: NONE

PROJECT W 400 S

E 400 N

EP-101



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VBFA CONSULTING ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

SPECTRUM

COLLEGE -AZA ATE IT PL ST AN VEI VALLEY HEAT P

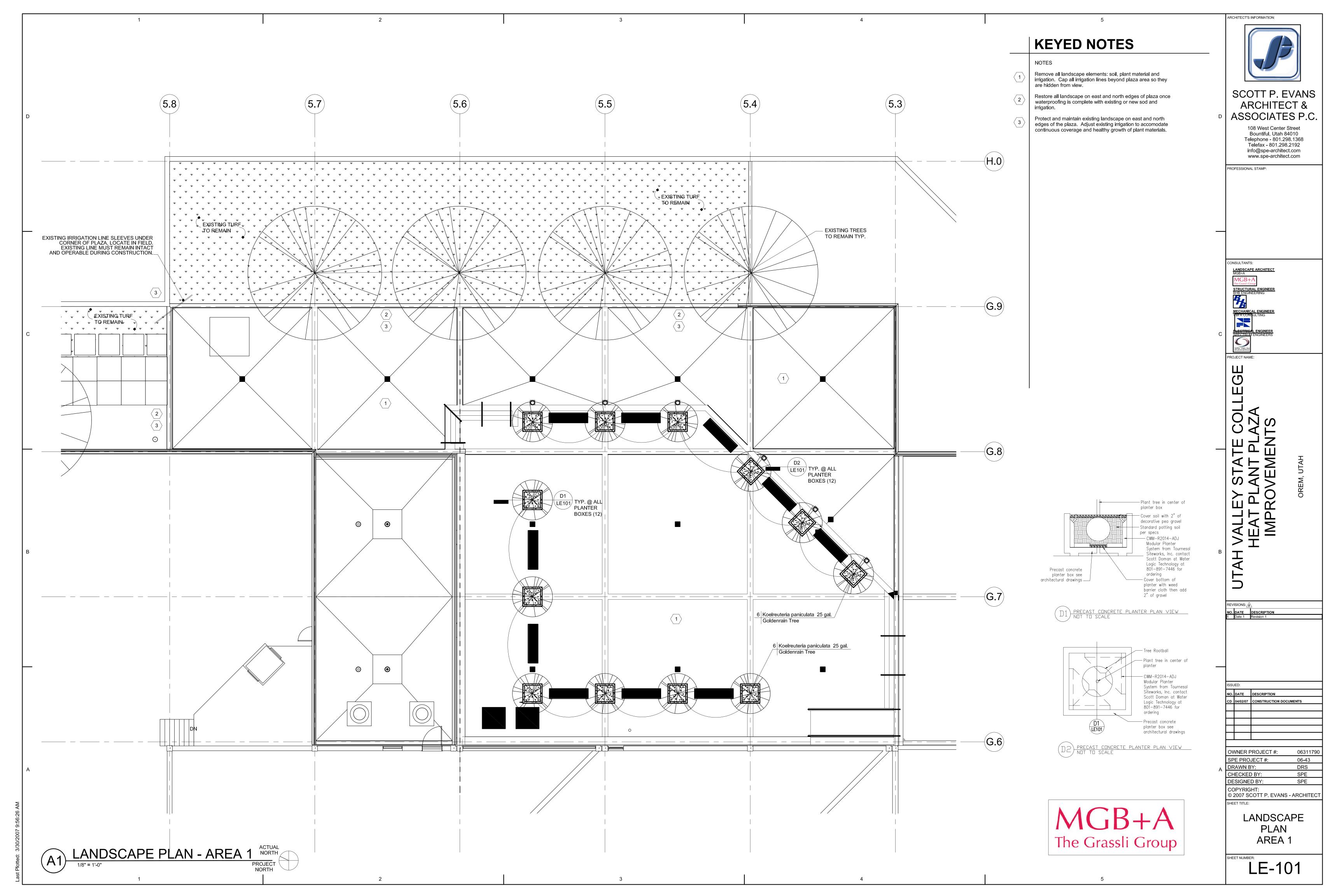
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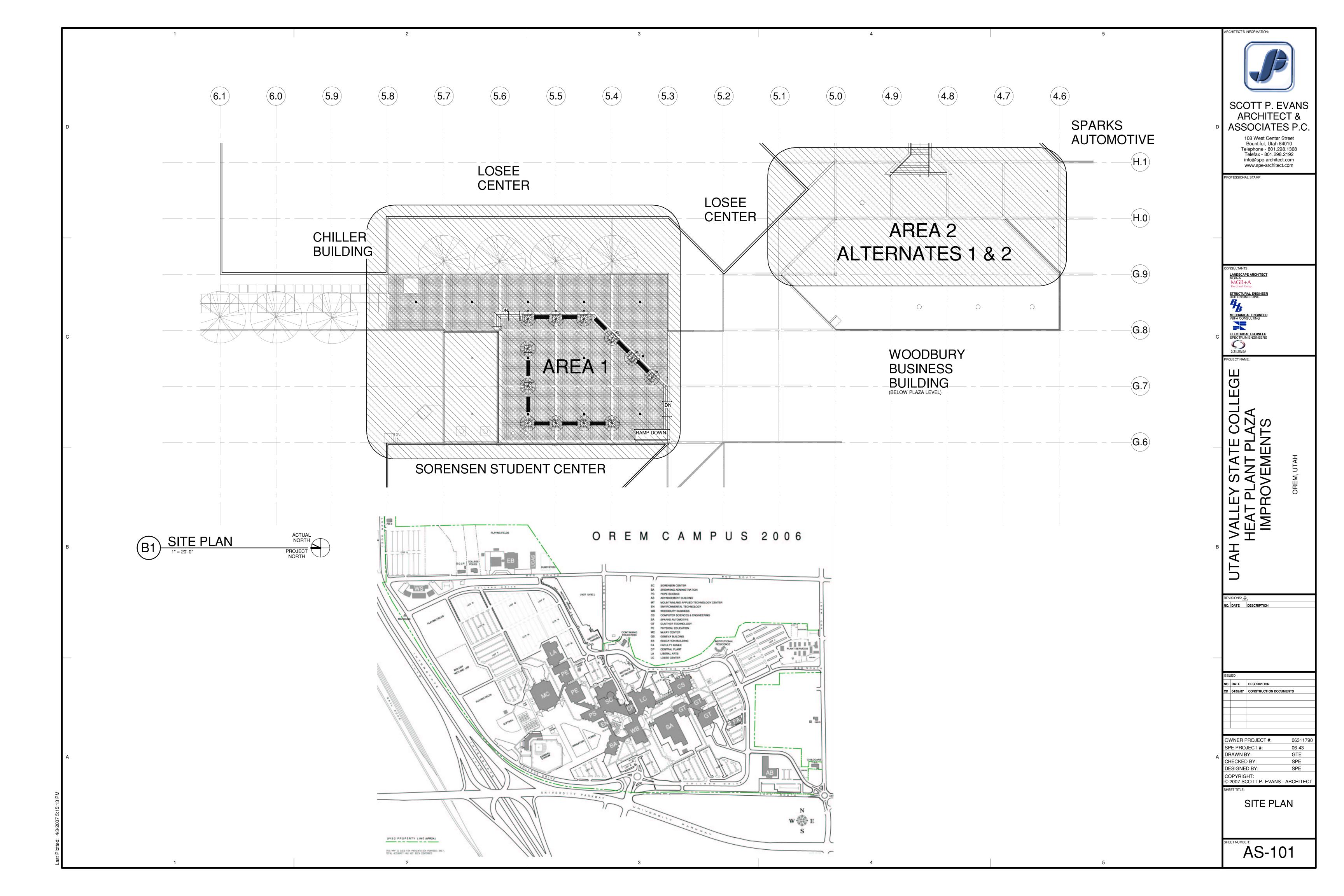
CD 04/02/07 CONSTRUCTION DOCUMENTS

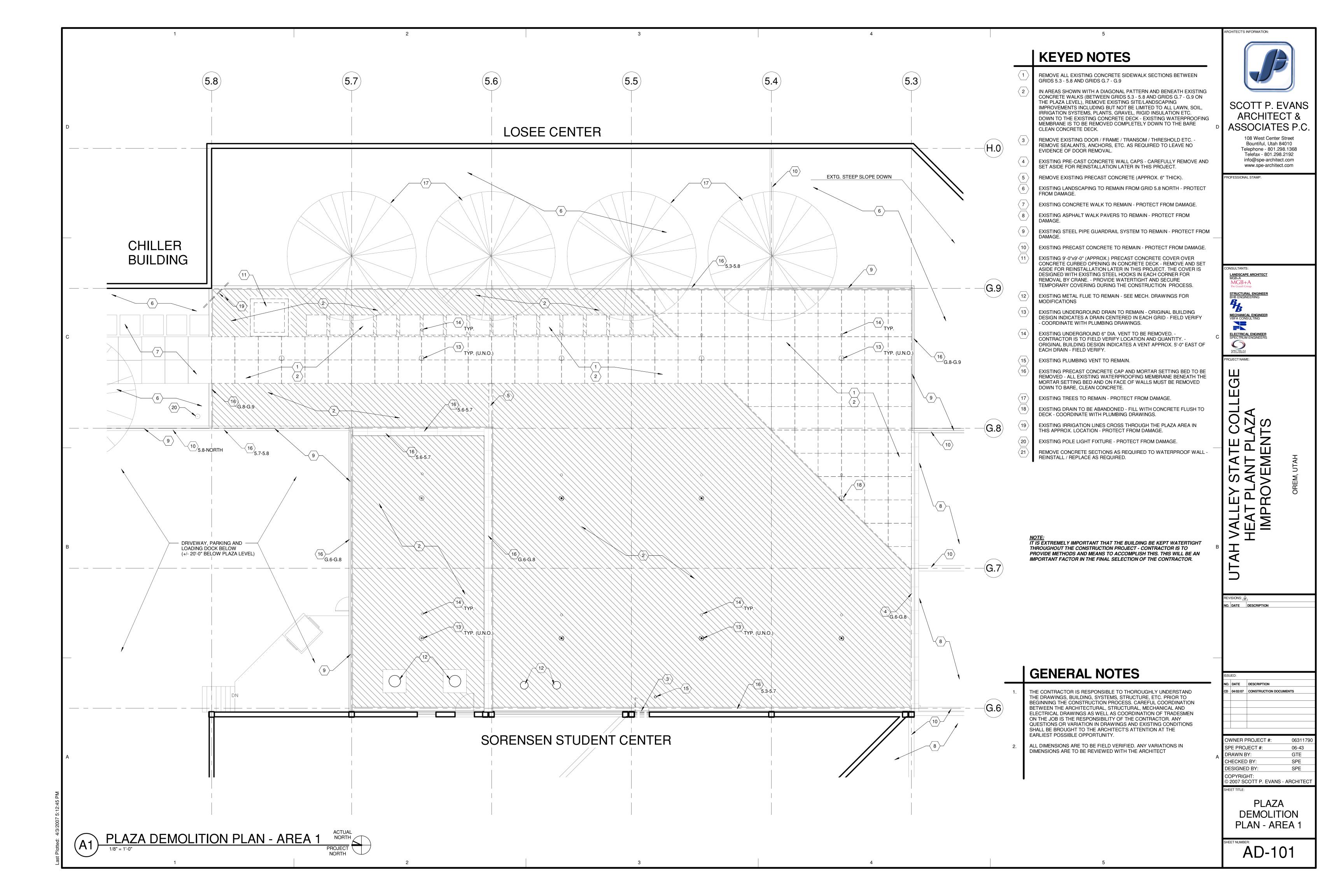
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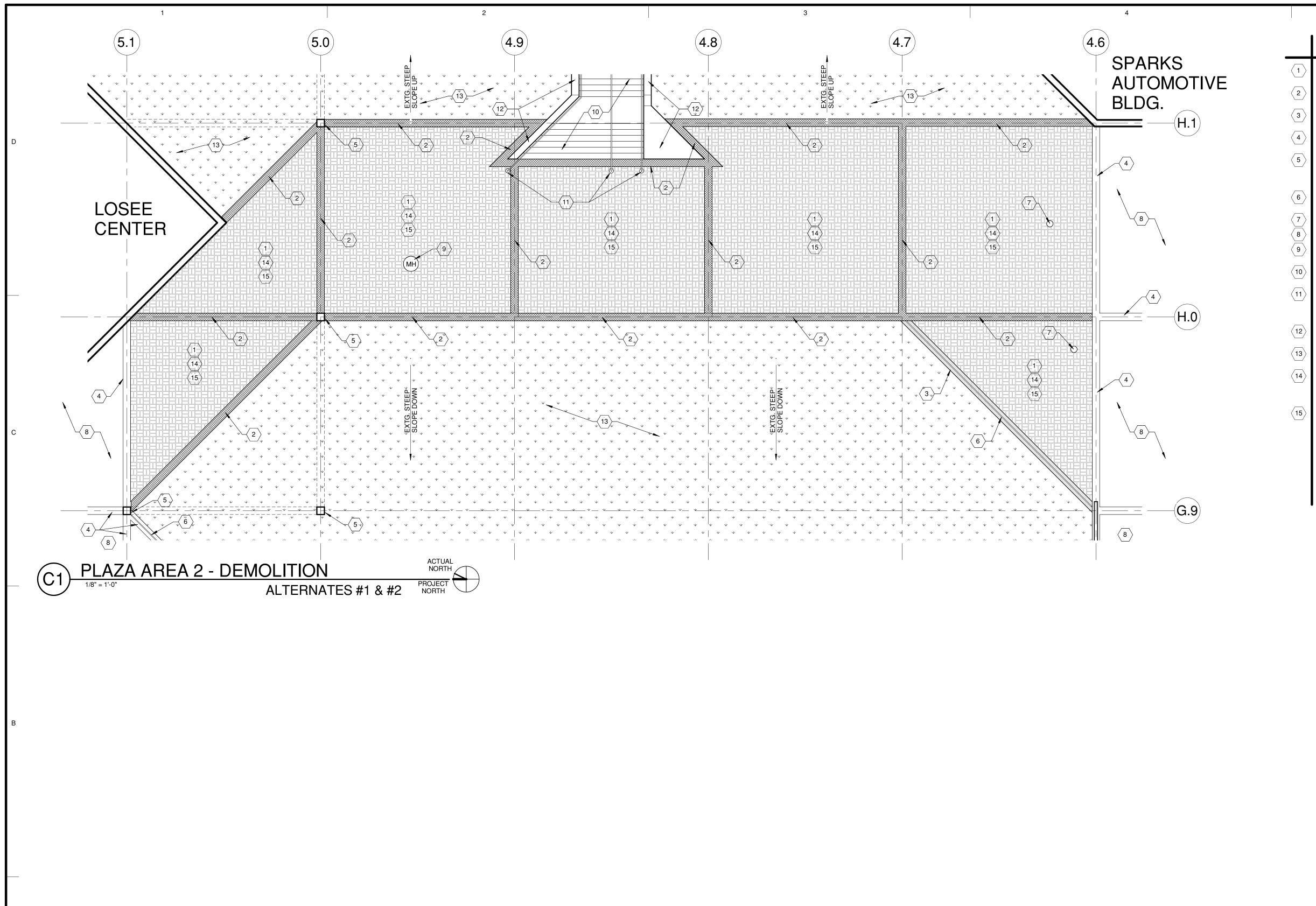
GENERAL INFORMATION

GI-002









KEYED NOTES

REMOVE ALL EXISTING ASPHALT PAVERS BETWEEN GRIDS 4.6-5.1 AND G.9-H.1

REMOVE EXISTING PRECAST CONCRETE FEATURE STRIPS TYP. WHERE INDICATED BY SMALL CROSS HATCH PATTERN.

REMOVE EXISTING PRECAST CONC. WALL CAPS AND MORTAR SETTING BED WHERE INDICATED BY DIAGONAL HATCH PATTERN.

EXISTING CONCRETE PRECAST FEATURE STRIP TO REMAIN - PROTECT FROM DAMAGE.

EXISTING CONCRETE COLUMN - PROTECT FROM DAMAGE - CLEAN SURFACES WHICH ARE CURRENTLY BELOW GRADE WHICH WILL BE EXPOSED DUE TO THE NEW SLOPE OF THE NEW WALKING SURFACE (WHERE OCCURS)

EXISTING PAINTED STEEL PIPE RAIL TO REMAIN - PROTECT FROM DAMAGE.

EXISTING PLAZA DRAIN TO REMAIN - PROTECT FROM DAMAGE.

EXISTING ASPHALT PAVERS TO REMAIN - PROTECT FROM DAMAGE

EXISTING MAN HOLE AND COVER TO REMAIN - MODIFY AS REQUIRED TO BE FLUSH WITH THE NEW WALKING SURFACE.

EXISTING CONCRETE STAIR SYSTEM TO REMAIN - PROTECT FROM DAMAGE.

EXISTING PAINTED STEEL PIPE RAILING TO REMAIN - REMOVE CONCRETE BASE AT BOTTOM OF RAILING AS REQUIRED TO PROVIDE FLUSH SMOOTH APPEARANCE AFTER NEW WALKING SURFACE IS INSTALLED.

EXISTING CONCRETE CHEEK WALL AND CONCRETE MONUMENT TO

EXISTING GRASS / LANDSCAPING TO REMAIN - REWORK AS REQUIRED WHERE NEW WORK IS TO TAKE PLACE.

REMOVE / REGRADE EXISTING SOIL BELOW ASPHALT PAVERS AS REQUIRED FOR NEW WALKING SURFACE SYSTEM AND NEW SLOPE -COORDINATE WITH THE ALTERNATE NEW WALKING SURFACE OPTIONS.

REMOVE EXISTING ASPHALT PAVING BASE BENEATH THIS ENTIRE AREA.



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The Grassli Group

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| VALLEY STA | HEAT PLAN | IMPROVEN UTAH

REVISIONS: #\(\frac{1}{2} \)

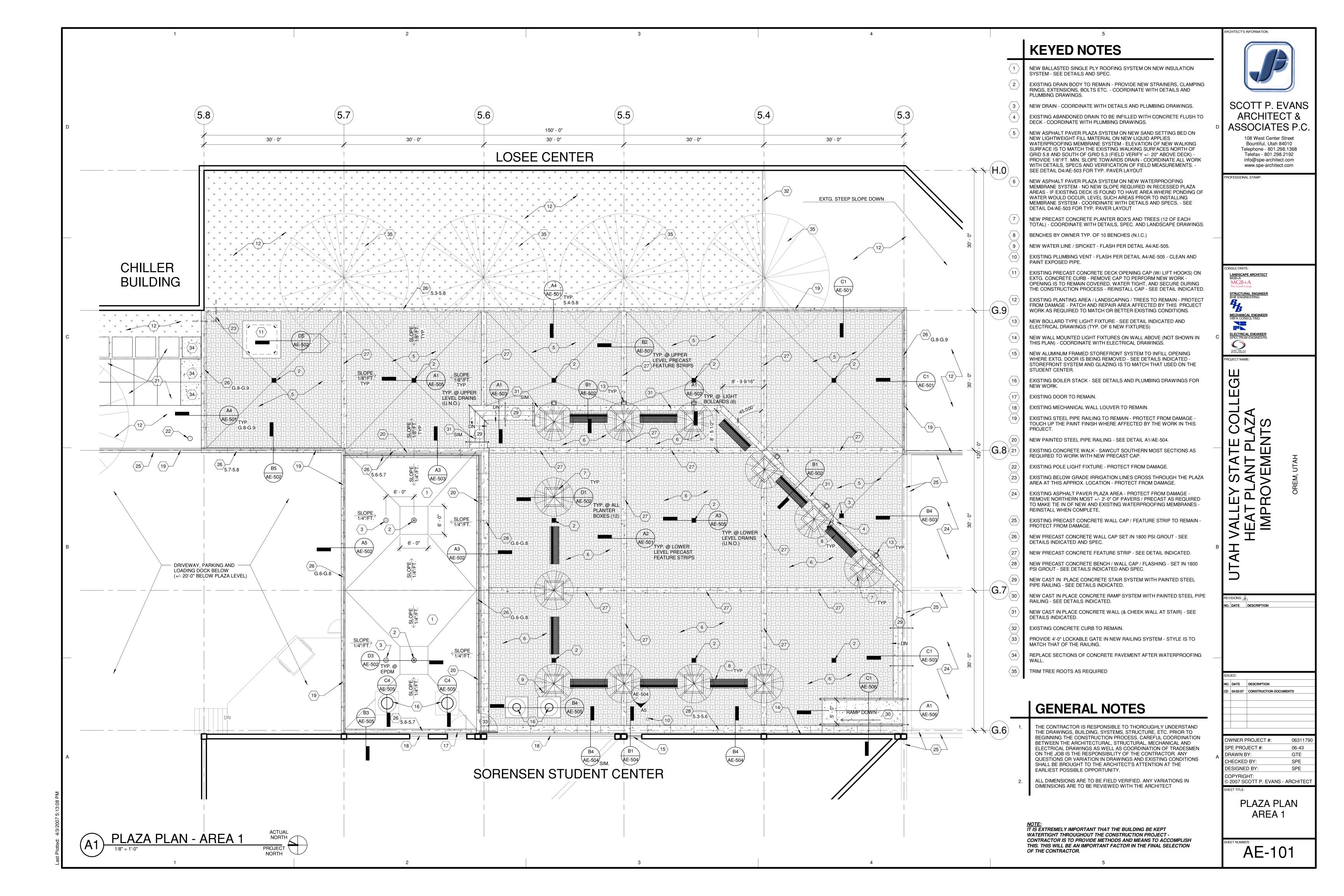
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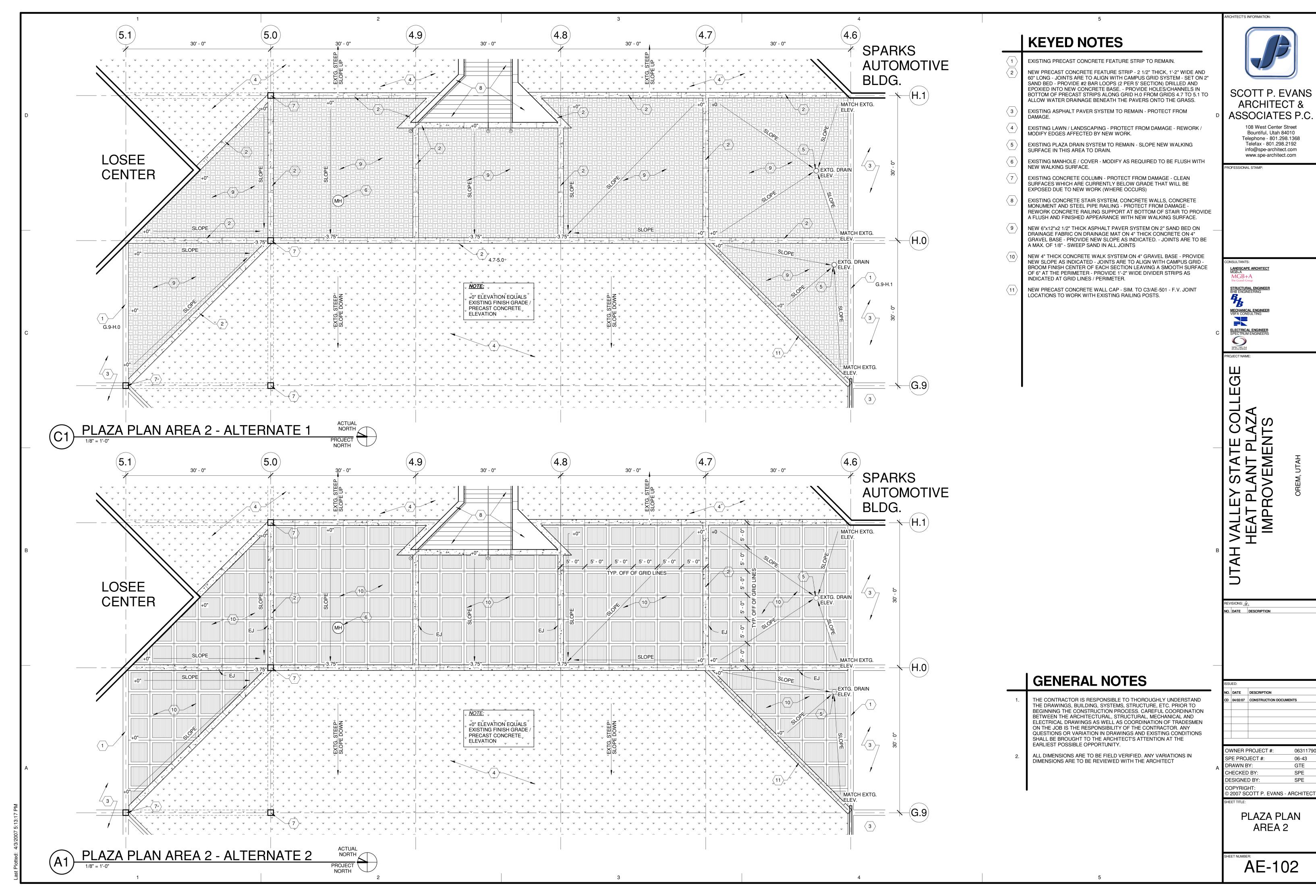
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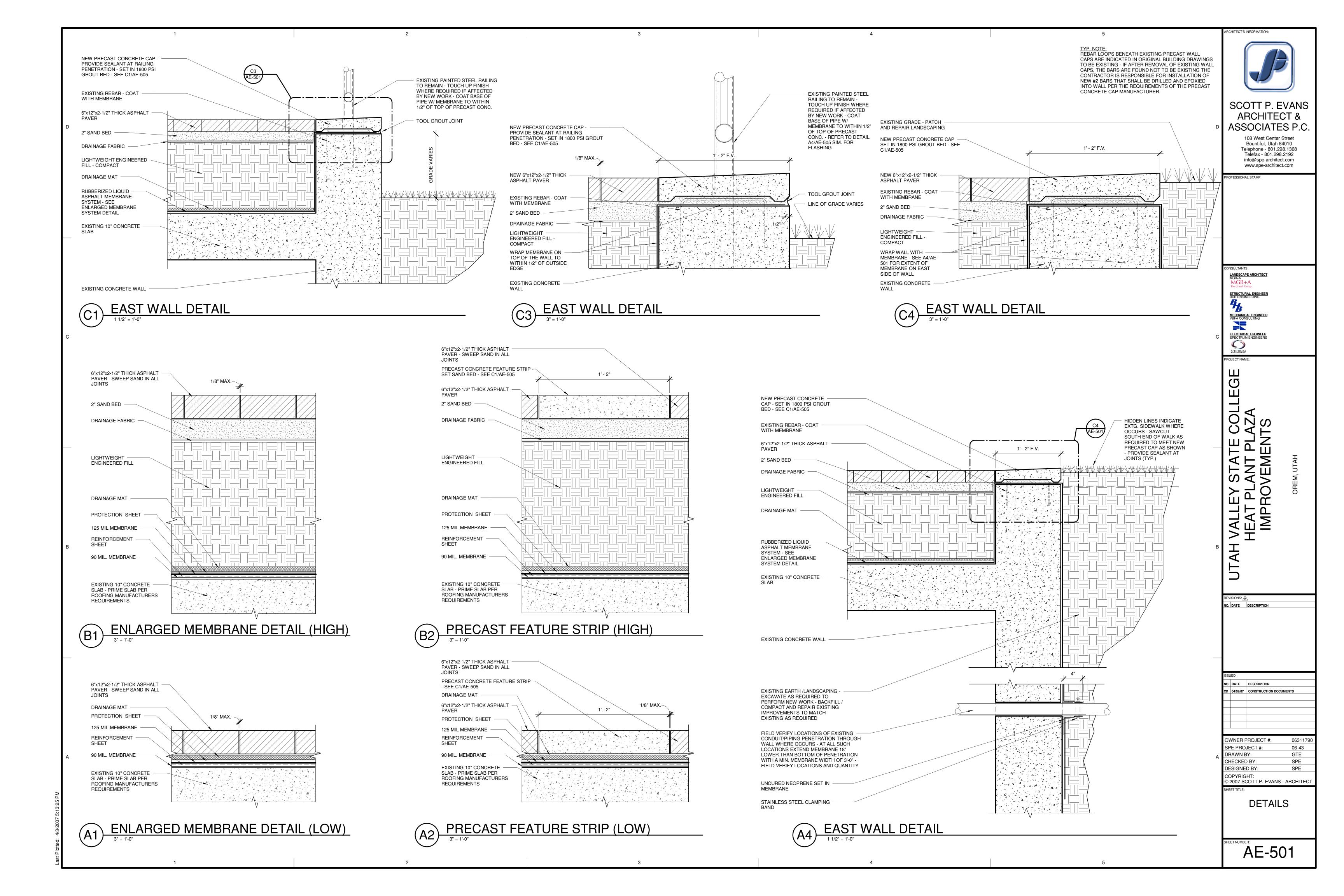
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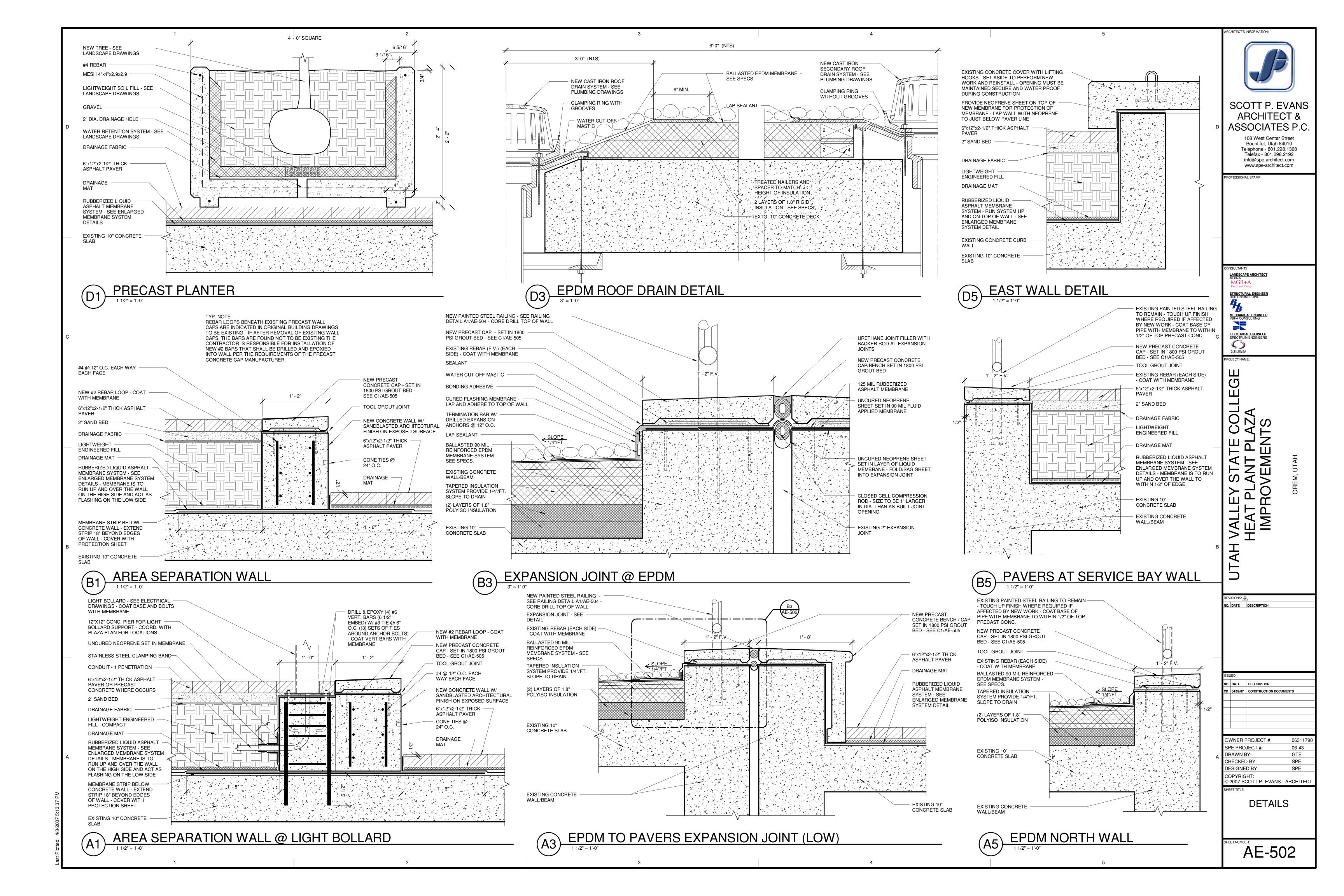
> PLAZA **DEMOLITION** PLAN - AREA 2

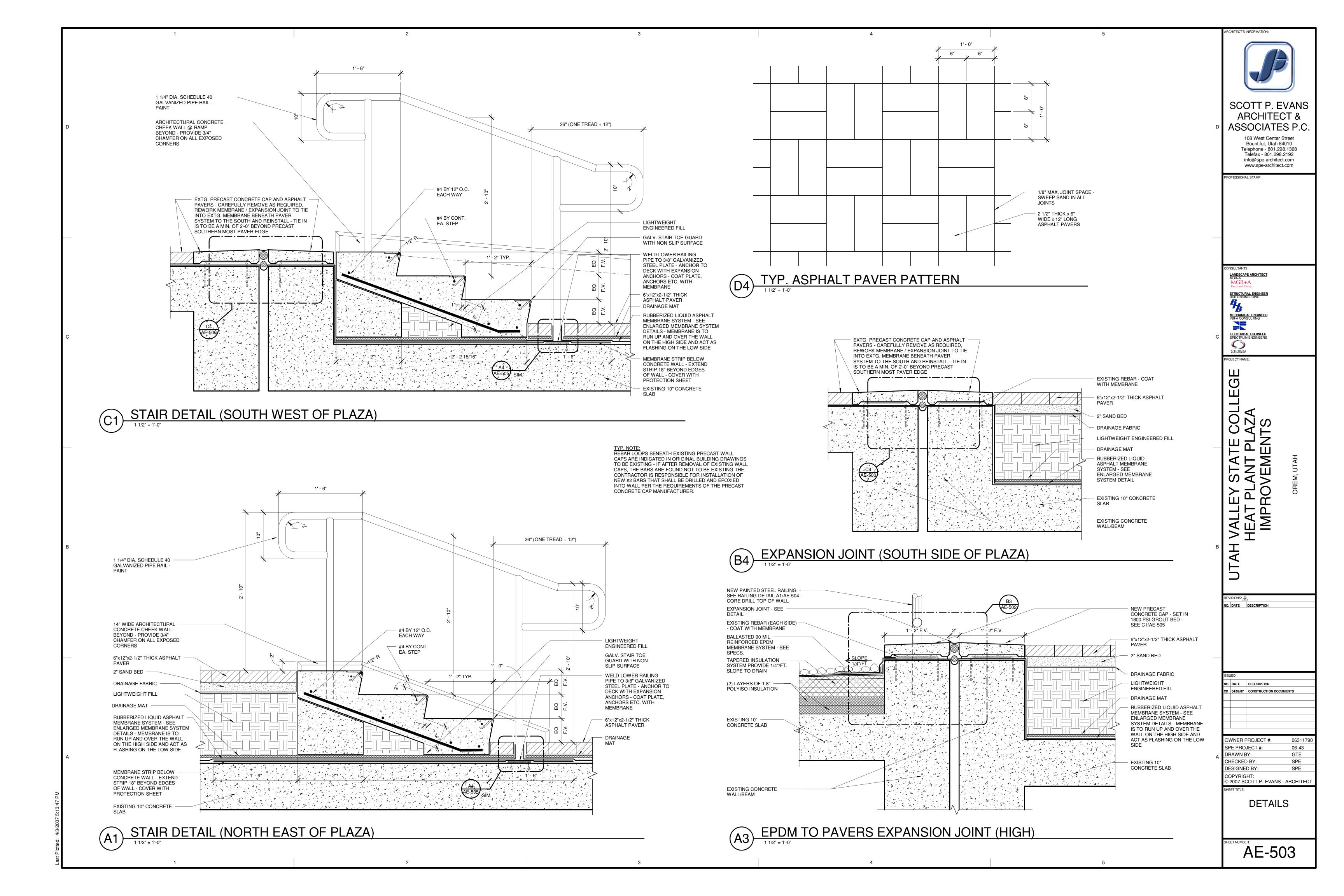
AD-102

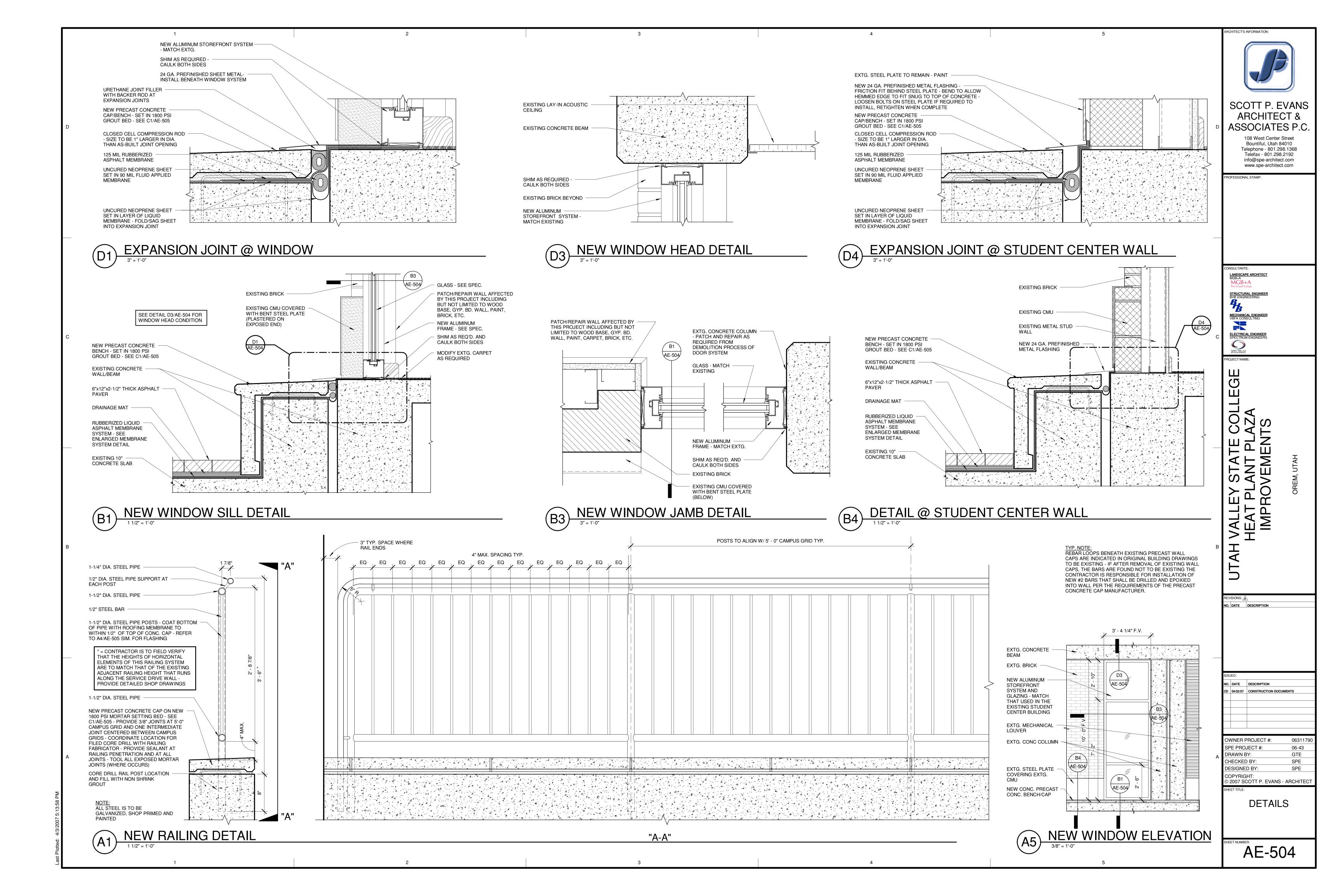


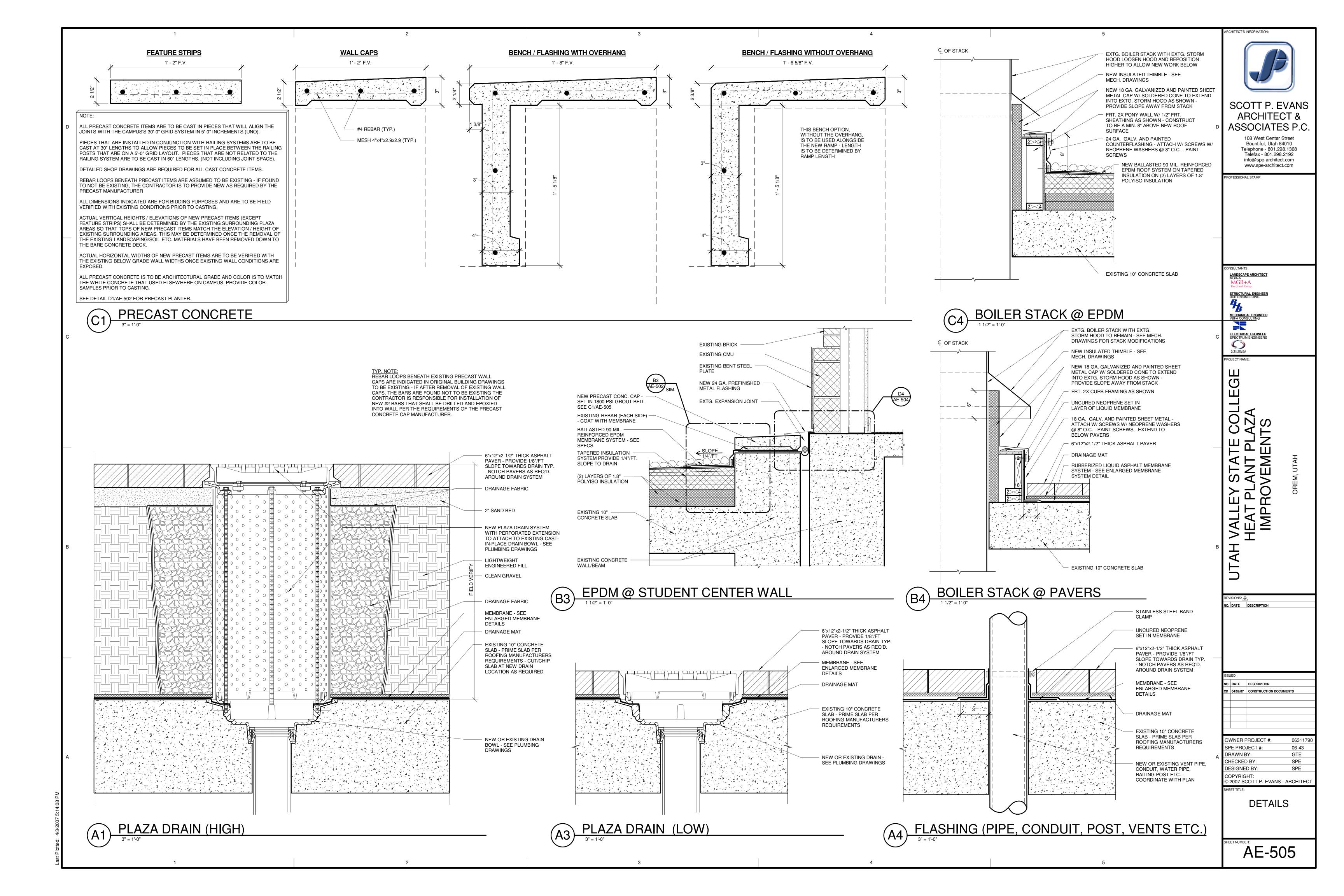


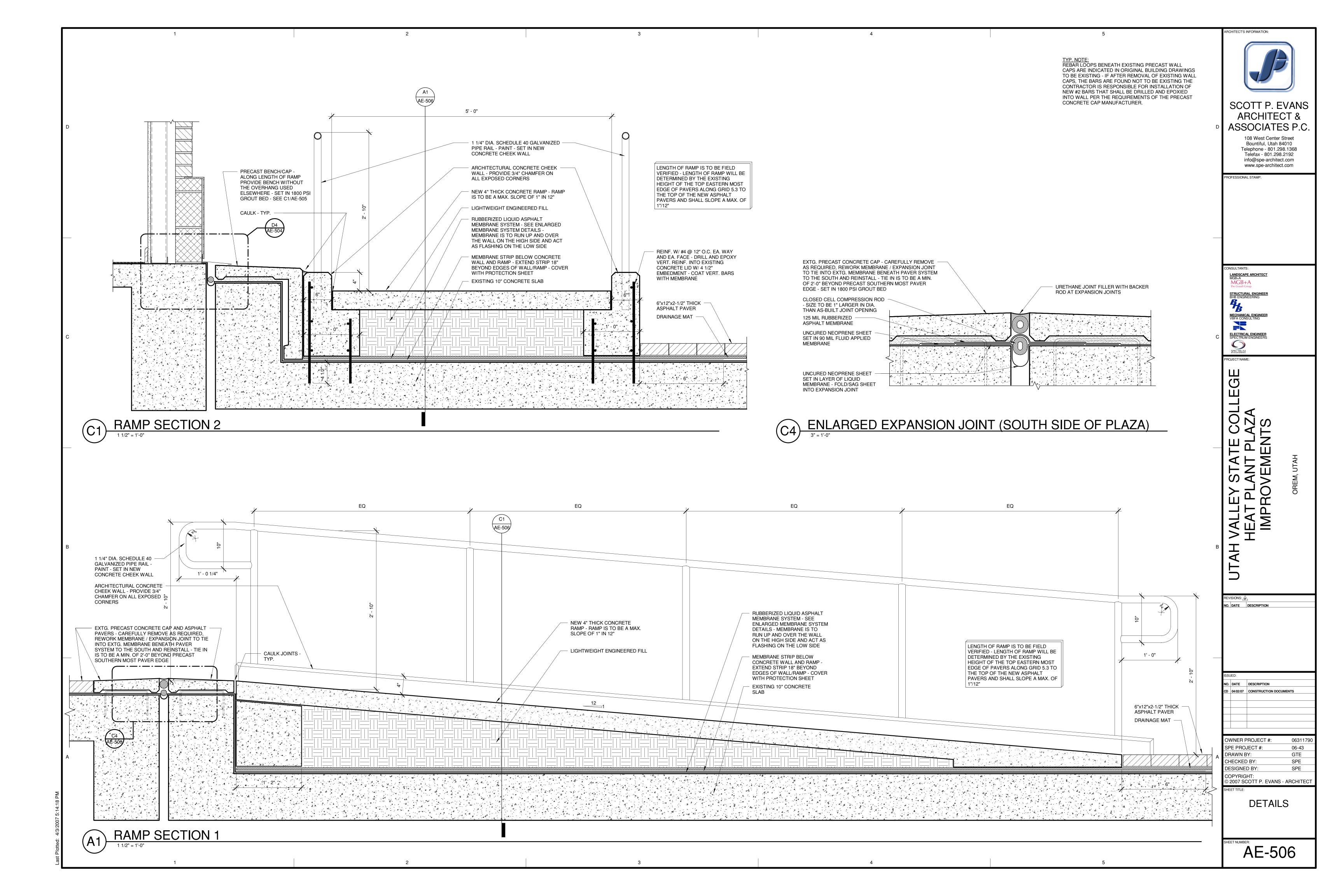






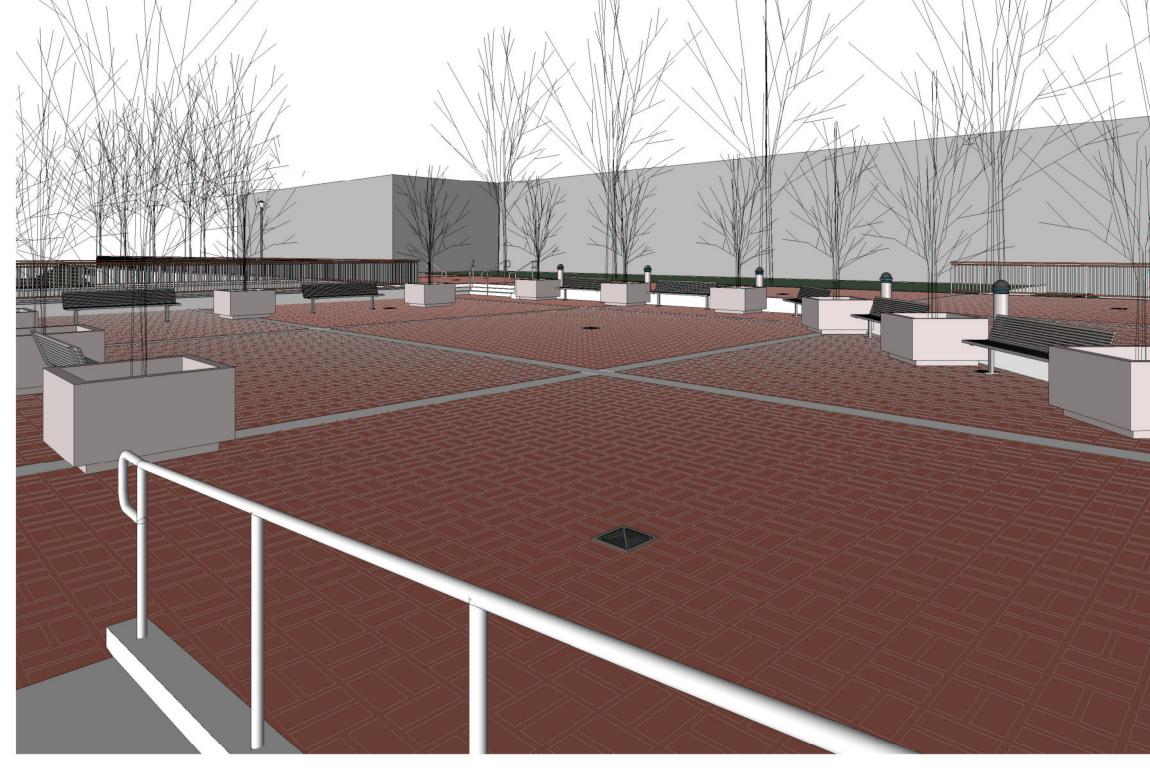






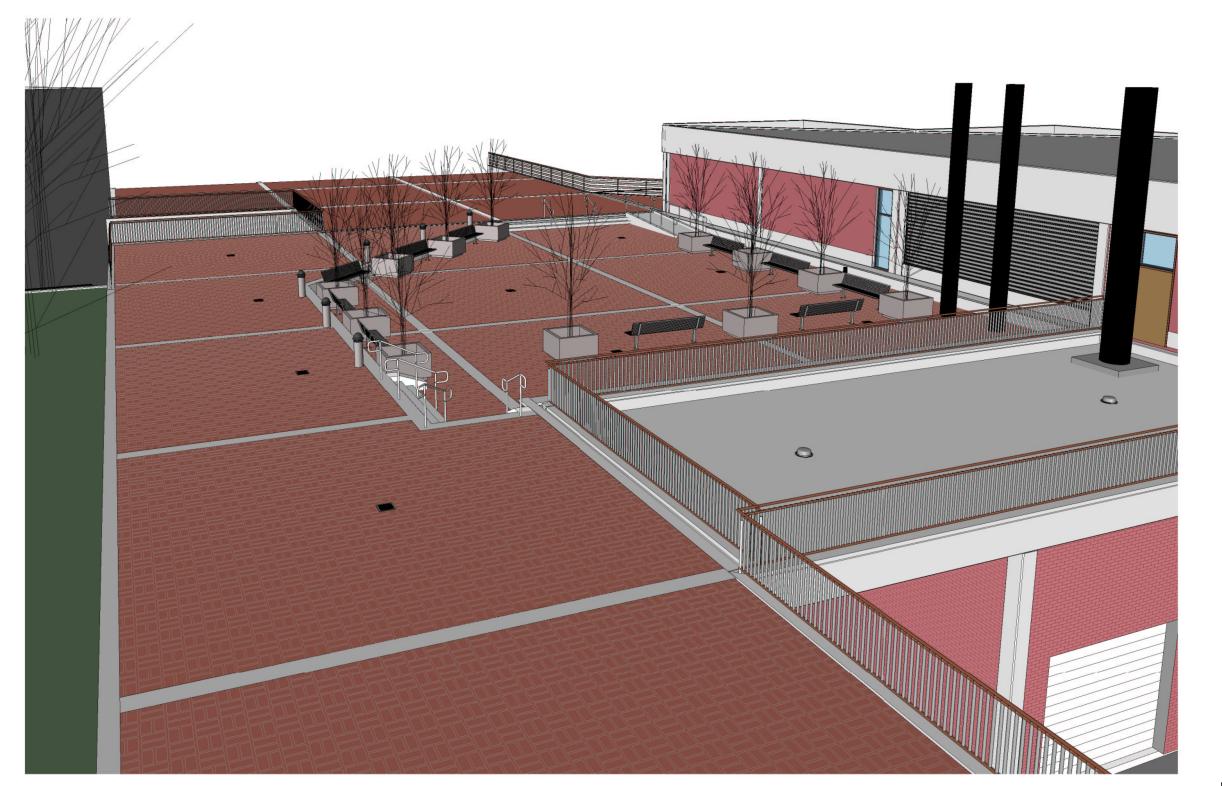


C1 VIEW AT NORTH EAST STAIRS



C3 VIEW FROM STANDING ON RAMP





(A3) VIEW FROM NORTH EAST OF PROJECT

NOTE:
THE VIEWS ON THIS SHEET ARE NOT TO BE
CONSTRUCTED FROM - THESE ARE SOLELY
FOR THE PURPOSE OF HELPING TO VISUALIZE
AND CONCEPTUALLY UNDERSTANDING THE
PROJECT.

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MECHANICAL ENGINEER
VBFA CONSULTING

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

TATE COLLEGE

BECTRICAL ENGINEERS

BETTRICAL ENGINE

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SPE PROJECT #: 06-43

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CHECKED BY: SPE

DESIGNED BY: SPE

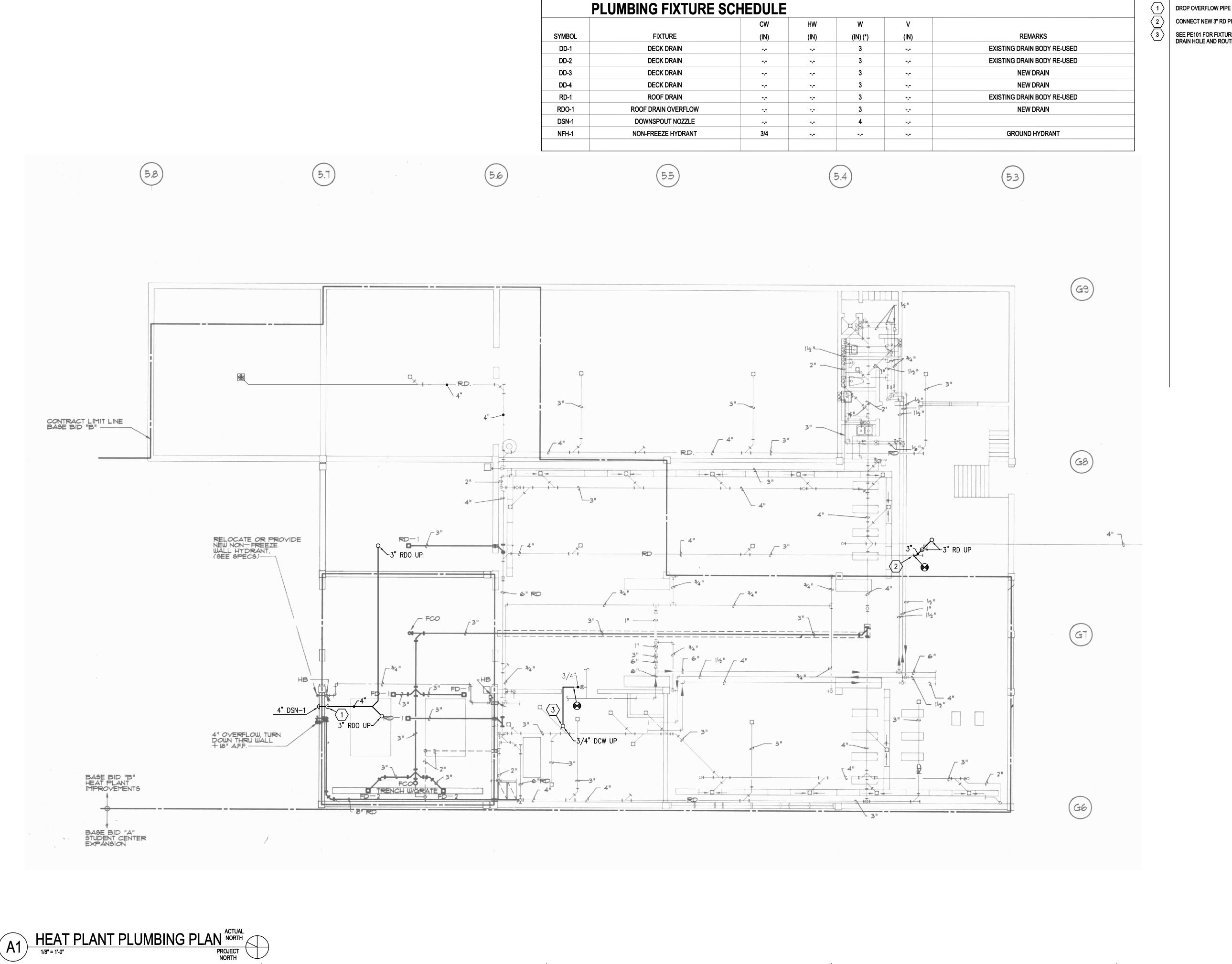
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3D VIEWS

AE-901

07100\07110 UVSC Plaza Improvement\01_Cadd_Phase 1_Plumbing\7110_pd-101.dwg, 3/30/2007 3:51:57 PM, Bluebeam PDF9 Printer HighRes.

/7\07100\07110 UVSC Plaza Improvement\01_Cadd_Phase 1_Plumbing\7110_pe-101.dwg, 3/30/2007 3:52:02 PM, Bluebeam PDF9 Printer HighRes.pc



KEYED NOTES

- DROP OVERFLOW PIPE ALONG WALL, MOUNT DSN AT 18" AFF.
- CONNECT NEW 3" RD PIPE.
- SEE PE101 FOR FIXTURE LOCATION. PROVIDE 1/2" DRAIN FROM POST HYDRANT DRAIN HOLE AND ROUTE TO NEAREST FLOOR DRAIN.

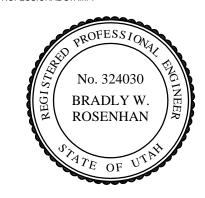


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VBFA CONSULTING

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I VALLEY STA HEAT PLAN IMPROVEN

REVISIONS: A

NO. DATE DESCRIPTION

No. DATE DESCRIPTION
4-4-07 Construction Documents

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HEAT PLANT PLUMBING PLAN

PE-102

SYMBOL	DESCRIPTION
REFERENC	L CE AND LINE SYMBOLS
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-5 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
<u></u>	KEYNOTE INDICATOR.
$\frac{\underline{}}{1}$	REVISION INDICATOR.
(CU-1)	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
<u> </u>	BREAK, ROUND.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
WIRING M	ETHODS
	WIRING.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEPT THOSE SPECIFIED IN SECTION 16120.
1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MAR
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
0	JUNCTION BOX.
LIGHTING	(REFER TO FIXTURE SCHEDULE FOR SYMBOL
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPAS SCHEDULED.
LIGHTING	CONTROL
	PHOTOCELL.

PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.

LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING

RF8-100MH-DB-100W/E17-F-MED

3

ENCLOSURE.

LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277)

BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.							
		FIXTURE CHARACTERISTICS					
		BODY / AIR / MOUNTING / DOOR					
SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP WAT	TS VOLTS	MANUFACTUR	ER CATALOG NUMBER	NOTES
	OA	SMALL RECTANGULAR WALL PACK: POLYCARBONATE HOUSING WITH POLYCARBONATE PRISMATIC DIFFUSER, RECESSED BOX					
		MOUNTING; BRONZE.					
	OA-99	RECTANGULAR WALL PACK:	1-100PSMH130\	N 277V	HUBBELL	PVL-100H-128L-277	
I		APPROX 6" X 6" X 12";	CLEAR		EXCELINE	SPW-10-3-MA-L-6(277V)	
Ов		WALL MOUNTED SEE ELEVATION.			LITHONIA	TWA-100M-277-LPI-DARK BRONZE	
	OB	BOLLARDS: SEAMLESS CAST ALUMIN	UM HOUSING, WIT	H MOUNTING B	ASE AND ANC	HOR BOLTS, ACRYLIC LENS, INTEGRAL MULTI-	
		TAP BALLAST; FUSED, COLOR AS DI	RECTED BY ARCH	HITECT CHOSEN	FROM MANUF	ACTURERS? STANDARD PAINTED FINISHES.	
	OB-99	8" ROUND X 42" HIGH,	100PSMH 130V	N 277V	MCGRAW EDIS	SONBRC-42-100-MH-MT-BZ-L	
		REFLECTOR OPTICS, SOLID			MOLDCAST	CBR-42-100MH-DBZ-MTAP	
ΙQ		CYLINDRICAL TOP.			LSI	VBR-IL-100-MH-CA-MT-BRZ	

2

ABBREVIATIONS NOTE: ALL ABBREVIATIONS MAY NOT BE USED. SINGLE POLE KILOVOLT SINGLE-PHASE KVA KILOVOLT AMPERE kVAR KILOVOLT AMPERE 1WAY ONE-WAY REACTIVE TWO-CONDUCTOR **KILOWATT** 2WAY TWO-WAY KILOWATT HOUR THREE-CONDUCTOR LIGHT EMITTING DIODE THREE-PHASE LFMC LIQUID TIGHT FLEXIBLE THREE-WAY 40UT QUADRUPLE RECEPTACLE METAL CONDUIT LIQUID TIGHT FLEXIBLE 4PDT FOUR-POLE DOUBLE NONMETALLIC CONDUIT LOW PRESSURE SODIUM 4PST FOUR-POLE SINGLE LOCKED ROTOR AMPS LIGHTING THROW LOW VOLTAGE FOUR-WIRE MATV MASTER ANTENNA 4WAY FOUR-WAY TELEVISION SYSTEM ABOVE COUNTER MAXIMUM ARMORED CABLE METAL CLAD AMERICANS WITH MINIMUM CIRCUIT AMPS DISABILITIES ACT MAIN CIRCUIT BREAKER ADJACENT MOTOR CONTROL CENTER ABOVE FINISHED FLOOR MCP MOTOR CIRCUIT ABOVE FINISHED GRADE AMPERE INTERRUPTING PROTECTION MAIN DISTRIBUTION CAPACITY ALUMINUM MOTOR GENERATOR AMPERE MANHOLE ANNUNCIATOR ACCESS POINT MINIMUM MAIN LUGS ONLY (WIRELESS DATA) MOCP MAXIMUM OVERCURRENT AS REQUIRED PROTECTION AMPS SHORT CIRCUIT AUTOMATIC TRANSFER NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL AUDIO VISUAL AMERICAN WIRE GAGE NEMA NATIONAL ELECTRICAL BB XFMR BUCK-BOOST MANUFACTURERS TRANSFORMER ASSOCIATION CEILING MOUNTED NATIONAL FIRE CODE COMMUNITY ANTENNA NATIONAL FIRE TELEVISION PROTECTION ASSOCIATION CIRCUIT BREAKER NOT IN CONTRACT CUSTOM COLOR AS SELECTED BY ARCHITECT | NL NIGHT LIGHT NORMALLY OPEN CLOSED CIRCUIT NOT TO SCALE TELEVISION ON CENTER CUSTOM FINISH AS SELECTED BY ARCHITECT OCP OVER CURRENT PROTECTION CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED OWNER FURNISHED/ CONTRACTOR INSTALLED CONTRACTOR FURNISHED/ OWNER FURNISHED/ OWNER INSTALLED OWNER INSTALLED CIRCUIT CONSTRUCTION MANAGER OFP OBTAIN FROM PLANS OVERHEAD (COILING) OH DR CONDUIT CONVENIENCE OUTLET CONTRACTING OFFICER'S | OL OVERLOAD PUSHBUTTON REPRESENTATIVE POWER FACTOR CONTROL PANEL PHASE CURRENT TRANSFORMER PANEL CABLE TELEVISION POTENTIAL TRANSFORMER COPPER PTZ PAN/TILT/ZOOM UNIT OF SOUND LEVEL QTY QUANTITY DPDT DOUBLE POLE DOUBLE REMOVE DISCONNECT SWITCH | RCP REFLECTED CEILING PLAN RIGID METAL CONDUIT EACH RIGID NONMETALLIC RNC **EMERGENCY** ELECTRICAL METALLIC REVOLUTIONS PER MINUTE ELECTRICAL NONMETALLIC | RR REMOVE AND RELOCATE SHORT CIRCUIT AMPS EMERGENCY POWER OFF SCBA STANDARD COLOR AS SELECTED BY ARCHITECT **EQUIPMENT** SQUARE FOOT (FEET) **EXISTING** STANDARD FINISH AS FURNITURE MOUNTED SFBA SELECTED BY ARCHITECT FIRE ALARM FIRE ALARM CONTROL SINGLE POLE, DOUBLE PANEL SPEC SPECIFICATION FULL LOAD AMPS SINGLE POLE, SINGLE FLEXIBLE METALCONDUIT SPST FOB THROW FREIGHT ON BOARD START/STOP FVNR FULL VOLTAGE SINGLÉ THROW NON-REVERSING FULL VOLTAGE REVERSING SWBD **SWITCHBOARD** SWGR SWITCHGEAR GROUND TWIST LOCK **GENERATOR** GROUND FAULT CIRCUIT TELEPHONE POLE GFCI TWISTED PAIR INTERRUPTER GROUND FAULT TELEPHONE TERMINAL BOARD **PROTECTION TELEVISION** HEAVY DUTY TVSS TRANSIENT VOLTAGE HIGH INTENSITY SURGE SUPPRESSER DISCHARGE TYPICAL HAND-OFF-AUTOMATIC UNDERFLOOR HORSE POWER HIGH POWER FACTOR UGND UNDERGROUND HIGH PRESSURE SODIUM UPS UNINTERRUPTIBLE POWER

SUPPLY

VOLT AMPERE

CONTROLLER

WEATHERPROOF

TRANSFORMER

VARIABLE FREQUENCY

VOLTS

WITH

WITHOUT

VFC

XFMR

HIGH VOLTAGE

INPUT/OUTPUT

JUNCTION BOX

ISOLATED GROUND

INTERMEDIATE METAL

INSULATED/ISOLATED

HERTZ

CONDUIT

INFRARED

J-BOX

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

- 3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- 4. SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- 5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS,

ELE	CTRICAL SHEET INDEX	
SHEET NO	SHEET TITLE	
E-001	SYMBOL LEGEND & SHEET INDEX	
D-101	PLAZA ELECTRICAL DEMOLITION PLAN	
P-101	PLAZA ELECTRICAL PLAN	
P-102	BASEMENT ELECTRICAL PLAN	

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MECHANICAL ENGINEER
VBFA CONSULTING

ELECTRICAL ENGINEERS
SPECTRUM
SPECTRUM

PROJECT NAME:

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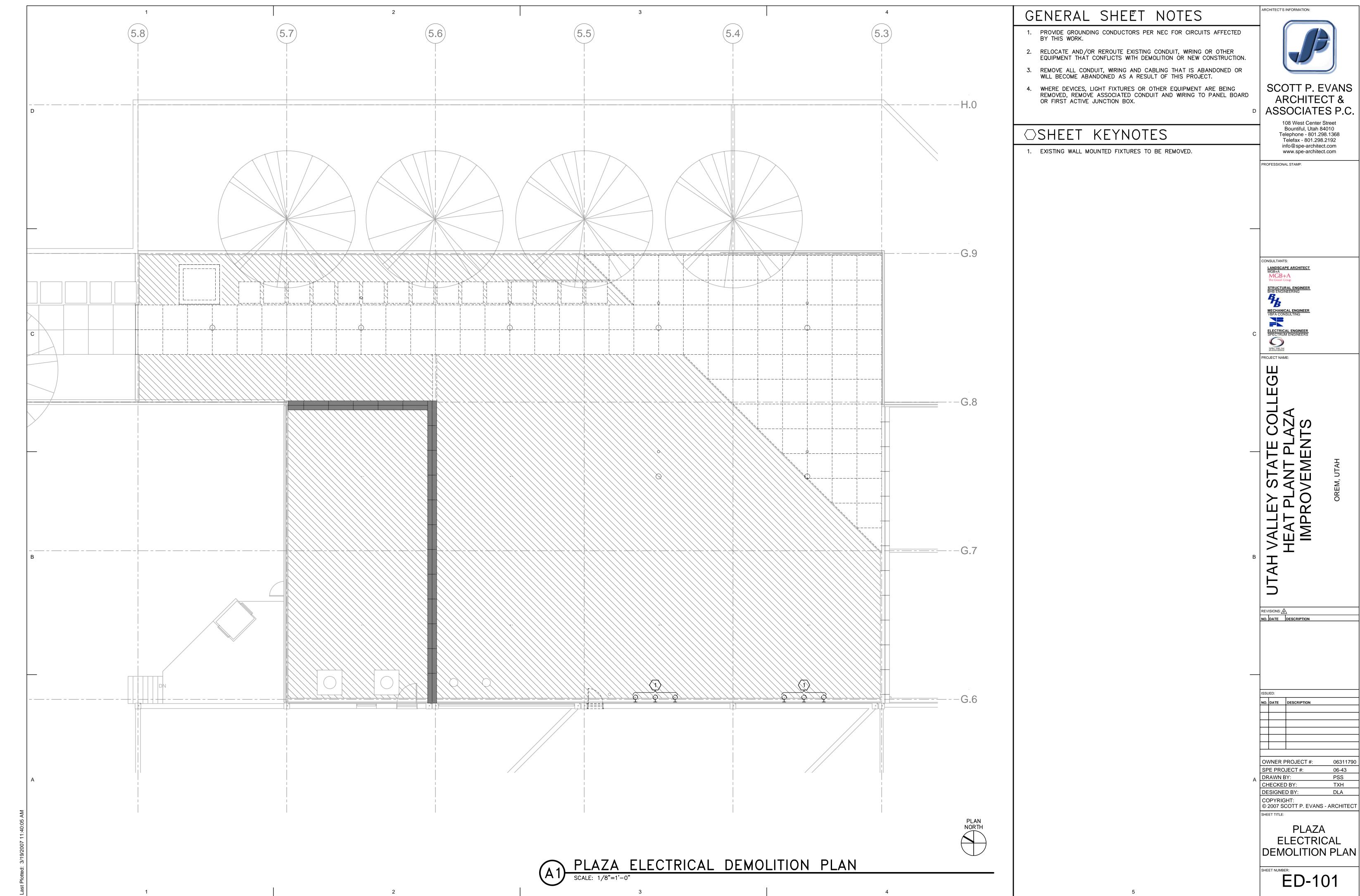
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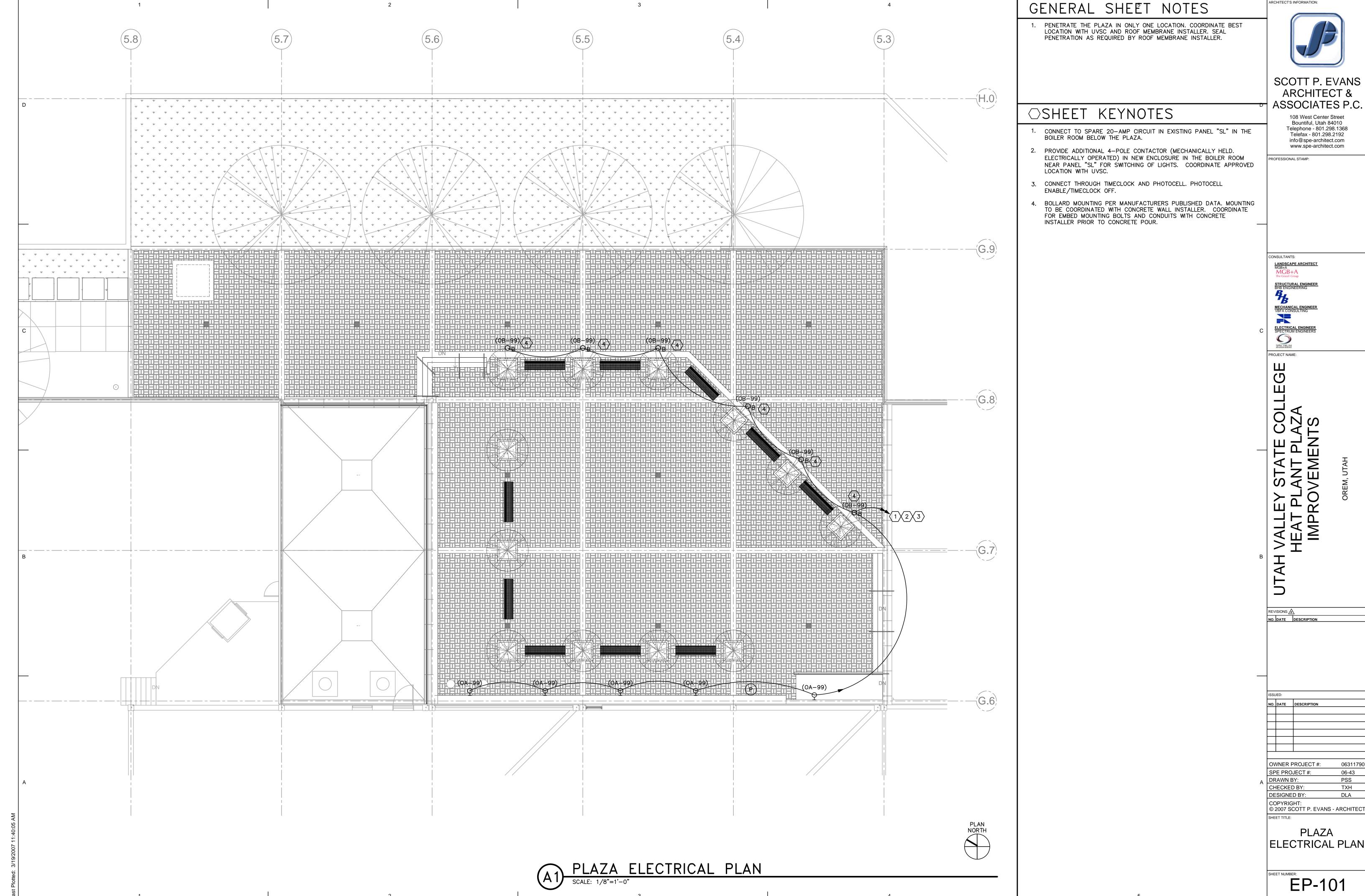
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SYMBOL LEGEND & SHEET INDEX

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